

Notice of Allowability

Application No.

09/418,690

Examiner

Prenell P Jones

Applicant(s)

KEJRIWAL ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/12/2004.
2. ☒ The allowed claim(s) is/are 11-20, 22-32, 34-48, 53-57, CP 12/16/04.
3. ☒ The drawings filed on 22 December 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), _____
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

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Allowable Subject Matter

CP 12/16/07

1. Claims 11-20, 22-32, 34-41^{CP 42}, 43-48, 50, 51, 53, 54⁵⁵ and 56⁵⁷ are allowed over prior art.

2. The following is an examiner's statement of reasons for allowance: After reading Applicant's remarks on page 16, and re-visiting the specification, Examiner withdraws the 112, first paragraph rejection that was presented in the previous office action.

Although the combined cited art, Varma et al, Lyles et al, Ramakrishnan, Daniel et al, teaches traffic management in an ATM switch (packet organizer) and associated output port is coupled to multiple memory devices/queues for storing data wherein that the ATM utilizes a scheduler for maintaining traffic continuity, controller/scheduler is coupled to multiple memory, ATM support various service classes wherein priority mechanism associated with round robin separates traffic classes from each other whereby CBR traffic class is given the highest priority and the remaining classes (VBR, ABR, UBR) are given lower priority, queues divided into groups where queues in a first group are served using WFQ scheduling and queues in remaining groups are serviced using round robin technique, a buffer associated with an ATM switch is coupled to a controller/scheduler, an output queued routing mechanism, packets are delivered to the output port of an ATM, plurality priority output FIFO queues, round robin servicing, queues coupled to scheduler and memory pointers associated with queues, and multiple queues, scheduler, round robin pointers used to implement scheduler wherein

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queues are coupled to a control logic device, ATM system there exist virtual connections such as virtual pipelines connecting users of a network wherein each pipeline serves more than one pair of users, high priority packet identifier, a scheduler that services locations according to a plurality of scheduling cycles, wherein said first location, and one of said n time slot locations can be serviced for each of scheduling cycles, such that, n of said scheduling cycles results in said first location being serviced n times and said n time slot locations each being serviced one time, said servicing of a said location causing removal of a said packet identifier stored therein, said removal of a said packet identifier stored therein causing sending of a packet identified by said packet identifier from said packet buffer to said networking line, wherein each of said scheduling cycles corresponds to an output rate defined by an amount of packet data sent from said packet buffer per unit of time they fail to teach or suggest a scheduler to service time slot locations according to multiple scheduling cycles, service whichever of time slot locations to be serviced during a particular scheduling cycle determined by round robin pointer having a rotation period so as to cause the time slots locations to correspond to different queuing delays causing the removal of packet identifiers from buffer of each time slot.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Prenell P. Jones


December 10, 2004

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows: Regarding claim 50, line 1, change "claim 49" to claim 48".


CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2667 12/13/07
